WHAT IS CLAIMED IS:

1. A system for monitoring pressure of tires mounted on a vehicle by comparing a detected tire pressure, detected by a pressure sensor installed at each of the tires, with a predetermined value to determine whether the detected tire pressure is proper, comprising:

a first temperature sensor, installed at at least one of the tires, that detects internal temperature of the tire;

a second temperature sensor, installed at the vehicle, that detects ambient temperature at a place where the vehicle locates; and

value correcting means for correcting the predetermined value based on a difference between the detected tire internal temperature and ambient temperature, when the tire pressure is to be adjusted.

2. A system according to claim 1, wherein the value correcting means corrects the predetermined value such that the predetermined value is increased with increasing difference between the detected temperatures.

3. A system according to claim 2, wherein the value correcting means corrects the predetermined value such that the predetermined value is increased as the detected tire internal temperature rises above the detected ambient temperature.

4. A system according to claim 1, wherein the predetermined value is set based on a recommended cold pressure.

5. A system according to claim 1, wherein the value correcting means corrects the predetermined value based on the difference between the detected temperatures when it is determined to be in a state that the tire pressure is to be adjusted stably.

6. A method of monitoring pressure of tires mounted on a vehicle by comparing a detected tire pressure, detected by a pressure sensor installed at each of the tires, with a predetermined value to determine whether the detected tire pressure is proper, comprising the steps of:

detecting internal temperature of the tire;

detecting ambient temperature at a place where the vehicle locates; and

correcting the predetermined value based on a difference between the detected tire internal temperature and ambient temperature, when the tire pressure is to be adjusted.

7. A method according to claim 6, wherein the step of value correction corrects the predetermined value such that the predetermined value is increased with increasing difference between the detected temperatures.

8. A method according to claim 7, wherein the step of value correction corrects the predetermined value such that the predetermined value is increased as the detected tire internal temperature rises above the detected ambient temperature.

9. A method according to claim 6, wherein the predetermined value is set

based on a recommended cold pressure.

10. A method according to claim 6, wherein the step of value correction corrects the predetermined value based on the difference between the detected temperatures when it is determined that the vehicle is in a state that the tire pressure is to be adjusted stably.

11. A computer program embodied on a computer-readable medium for monitoring pressure of tires mounted on a vehicle by comparing a detected tire pressure, detected by a pressure sensor installed at each of the tires, with a predetermined value to determine whether the detected tire pressure is proper, comprising the steps of:

detecting internal temperature of the tire;

detecting ambient temperature at a place where the vehicle locates; and

correcting the predetermined value based on a difference between the detected tire internal temperature and ambient temperature, when the tire pressure is to be adjusted.

12. A system for monitoring pressure of tires mounted on a vehicle having a microcomputer or microprocessor that compares a detected tire pressure, detected by a pressure sensor installed at each of the tires, with a predetermined value to determine whether the detected tire pressure is proper, comprising:

a first temperature sensor, installed at at least one of the tires, that detects internal temperature of the tire; and

a second temperature sensor, installed at the vehicle, that detects ambient

temperature at a place where the vehicle locates;

the microcomputer is programmed to correct the predetermined value based on a difference between the detected tire internal temperature and ambient temperature, when the tire pressure is to be adjusted.